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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/662,031

09/12/2003

Ga-Lane Chen

9294

25859

7590

03/10/2006

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EXAMINER

HODGES, MATTHEW P

ART UNIT

PAPER NUMBER

2879

DATE MAILED: 03/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/662,031	Applicant(s) CHEN ET AL.	
	Examiner Matt P. Hodges	Art Unit 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-8,11-14 and 17-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-8,11-14 and 17-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/3/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/29/2005 has been entered.

Response to Amendment

The Amendment, filed on 11/25/2005, has been entered and acknowledged by the Examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4-8, 11-14, and 17-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kurai. (US 6,057,643).

Regarding claims 1, 4, 8, 14, and 17, Kurai discloses (see figure 1) a plasma display panel with a front substrate (11), first electrodes (X and Y) formed on the front substrate, a back substrate (21), and second electrodes (A) formed on the second substrate and perpendicular to the first electrodes. Kurai further discloses a plurality of partitions (29) forming discharge areas and sealing a gas in the discharge areas along with phosphor particles formed on the back substrate). (Column 2 lines 39-67). Further the discharge gas includes Neon and Krypton where the Krypton is included by 2%. (Column 20 lines 25-67). Kurai further discloses the use of a gas mixture with an approximate 500 Torr pressure. (Column 20 lines 25-67).

Regarding claims 5, 11, and 18, Kurai further discloses (see figure 1) the use of a dielectric layer (17) on the front substrate.

Regarding claims 6, 7, 12, 13, 19, and 20, Kurai further discloses (see figure 1) the use of a protective MgO film (18) on the front substrate. (Column 2 lines 62-65).

Claims 1, 4-6, 8, 11, 12, 14, and 17-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Henderson et al. (US 6,919,685).

Regarding claims 1, 4, 8, 14, and 17, Henderson discloses (see figure 1) a plasma display panel with a front substrate (15), first electrodes (X and Y) formed on the front substrate, a back substrate (11), and second electrodes (12) formed on the second substrate and perpendicular to the first electrodes. Henderson further discloses a plurality of partitions (13) forming discharge areas, phosphors (14) formed on the partitions, and a discharge gas being sealed in an area between the front substrate, back substrate, and partitions. (Column 2 lines 35-48). Further the discharge gas includes Neon and Krypton where the Krypton is included between 0.5-5%.

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(Column 4 lines 65-67). Henderson further discloses the use of a gas mixture with an approximate 400 Torr pressure. (Column 5 lines 10-15).

Regarding claims 5, 11, and 18, Henderson further discloses (see figure 1) the use of a dielectric layer (16) on the front substrate. (Column 2 lines 35-40)

Regarding claims 6, 12, and 19, Henderson further discloses (see figure 1) the use of a protective film (17) on the front substrate. (Column 2 lines 35-40).

Response to Arguments

Applicant's arguments filed 11/4/2005 have been fully considered but they are not persuasive.

Regarding applicant's assertion that the prior art of record does not disclose the use of a fill gas that "consist essentially of neon and krypton" the examiner respectfully disagrees. The use of both krypton and neon are in fact essential to the desired operation of the disclosed device. (See for example Column 4 lines 50-67). Further with regards to total composition, neon and krypton together compose approximately 96% of the total fill gas. Finally, the claim as worded does not restrict the use of additional gasses in small portions, for example 4% xenon.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt P Hodges whose telephone number is (571) 272-2454. The examiner can normally be reached on 7:30 AM to 4:00 PM M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mph

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